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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/684,881	10/14/2003	Jae-Yeon Song	5000-1-499	4860
33942 7590 03/07/2007 CHA & REITER, LLC			EXAMINER	
210 ROUTE 4	EAST STE 103	TRAN, DZUNG D		
PARAMUS, N	J 07652		ART UNIT	PAPER NUMBER
			2613	
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		03/07/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		51			
	Application No.	Applicant(s)			
	10/684,881	SONG ET AL.			
Office Action Summary	Examiner	Art Unit			
	Dzung D. Tran	2613			
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	with the correspondence address			
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUN R 1.136(a). In no event, however, may a riod will apply and will expire SIX (6) MO atute, cause the application to become A	ICATION. The reply be timely filed ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. & 133)			
Status					
1) Responsive to communication(s) filed on 0	4 December 2006.				
	This action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice unde					
Disposition of Claims					
4) ☐ Claim(s) 1-7 is/are pending in the application 4a) Of the above claim(s) is/are without 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-7 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	drawn from consideration.				
Application Papers					
9) The specification is objected to by the Exam					
10) The drawing(s) filed on is/are: a) a					
Applicant may not request that any objection to Replacement drawing sheet(s) including the cor					
11) The oath or declaration is objected to by the					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Bur * See the attached detailed Office action for a	ents have been received. ents have been received in a priority documents have been reau (PCT Rule 17.2(a)).	Application No n received in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892)	4) ☐ Interview	Summary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No	(s)/Mail Date Informal Patent Application			

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DETAILED ACTION

Specification

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Unitt et al. U.S. Publication no. 2005/0163149.

Regarding claims 1 and 4, Unitt discloses in Figure 11, a method/apparatus of a MAC (Medium Access Control) control block for controlling transmission of data between a plurality of MAC clients and a plurality of MACs in an Ethernet passive optical network (EPON), comprising:

a plurality of optical multipoint (OMP) blocks 126 (e.g., Outstation 12) connected between the MAC clients and the MACs for implementing a multipoint control protocol (MPCP) (page 9, paragraphs 0131-0134); and

head end medium access logic 116 (e.g., equivalent to a multipoint gating control block) configured to receive transmission in progress state variable from the OMP blocks connected to their associated MAC clients, to determine transmission states of the MAC clients with the received transmission in progress state variable, and to

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selectively controlling the OMP blocks so that when any one of the OMP blocks is transmitting the data, the other OMP blocks are prevented from transmitting data (page 2, paragraphs 0029, 0039; page 4, paragraphs 0058, 0064; page 5, paragraph 0089).

Regarding claim 2, Unitt discloses the multipoint gating control block is configured to control data transmission by the MAC clients by providing transmission enable state variables to the OMP blocks connected to their associated MAC clients (page 2, paragraph 0029; page 4, paragraphs 0058, 0064).

Regarding claims 3 and 5, Unitt discloses wherein the head end medium access logic 116 (e.g., equivalent to a multipoint gating control block) determines a value of a transmission enable state variable by driving a timer indicating a transmission start time and a transmission stop time and provides a transmission opportunity by delivering the value to a corresponding

OMP block (page 2, paragraph 0029; page 4, paragraphs 0058, 0064; page 5, paragraph 0089).

Regarding claims 6 and 7, Unitt discloses wherein each of the transmission in progress state variables indicates whether a corresponding MAC client is transmitting data or not (page 2, paragraphs 0029, 0039; page 5, paragraph 0087).

Response to Argument

3. Applicant's arguments filed on 12/07/2006 have been fully considered but they are not persuasive.

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A. Rejection of claim 36 under *USC* § 102(e) as being anticipated under Unitt et al. U.S. Publication no. 2005/0163149.

Applicant argues that Unitt is not configured to receive transmission in progress state variable from the OMP blocks or to determine transmission states of the MAC clients. Examiner respectfully submits that page 2, paragraph 0029; page 4, paragraphs 0058, 0064; page 5, paragraph 0089 and Figure 1 of Unitt clearly discloses head end medium access logic 116 (e.g., equivalent to a multipoint gating control block) receive command frames marshal control from outstation 12 (ie., equivalent to OMP block), see abstract, and then send global pause control frame to control the transmission of the outstation 12 (ie., equivalent to OMP block).

Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dzung D Tran whose telephone number is (571) 272-3025. The examiner can normally be reached on 9:00 AM - 7:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan can be reached on (571) 272-3022. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dzung Tran 02/25/2007

DZUNG TRAN PRIMARY PATENT EXAMINER